



# SERC Regional Criteria

## Reliability Assessments

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Owner SERC Reliability Review Subcommittee		Approved by SERC Engineering Committee	Date October 2, 2018	Version 6	Page 1 of 6



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## 1.0 Purpose

The Reliability Review Subcommittee (RRS) prepared this document to outline its interpretation and to clarify its expectations of entities regarding the submittal of information required for North American Electric Reliability Corporation (NERC) seasonal, special, and Long-Term Reliability Assessments (LTRAs), as well as the SERC RRS Annual Report. This document highlights the strong relationship between the RRS assessment activities and with the data collections referenced in the NERC Reliability Standard MOD-031-2.

## 1.1 Confidentiality

All or portions of the compliance information submitted by SERC entities as part of the NERC Reliability Standards should be regarded as highly sensitive or confidential. Such information shall be maintained, distributed, and communicated in a manner consistent with the SERC Policy Regarding the Confidentiality of Data Submitted by SERC entities. Certain results of the assessments may also be considered to be Critical Energy Infrastructure Information (CEII) and may require special treatment.

## 2.0 Scope

The SERC RRS reports to the SERC Engineering Committee (EC). One of the primary charges of the RRS is to annually perform reliability assessments of the SERC Region, including seasonal, long-term, and special assessments to support the NERC Reliability Assessment Subcommittee, and a 10-year reliability assessment of the SERC Region (RRS Annual Report).

The RRS has prepared an annual 10-year reliability assessment since 1979. The report includes (both on a regional and subregional basis) a resource adequacy assessment, a transmission assessment, and a discussion of significant reliability issues impacting the SERC Region. While the report has evolved over the years, it has generally had a format similar to the NERC Reliability Assessment Subcommittee (RAS) Long-Term Reliability Assessment (LTRA), but focused on the SERC Region. This RRS Annual Report is approved annually by the SERC EC, and presented to the SERC Board Executive Committee (BEC). The information contained in this report has led to a variety of EC and/or Board initiatives over the years addressing reliability in the SERC Region.

## 3.0 Responsible SERC Groups

SERC Reliability Review Subcommittee (RRS)

## 4.0 Review and Re-approval Requirements

This document will be reviewed every three calendar years or as appropriate for possible revision. The existing or revised document will be re-approved by SERC Engineering Committee (EC) and distributed to the SERC Standing Committees.

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## 5.0 Registered Entity Expectations

### 5.1 Reliability Data

Load Serving Entities (LSEs), Planning Coordinators (PCs), Resource Planners (RPs), and Transmission Planners (TPs) shall provide reliability data on request to SERC staff in accordance with this document.

Reliability data requirements will be specified by SERC staff via the SERC portal . Information to be supplied includes, but is not limited to:

- Demand forecast data
- Resource capacity plans
- Transmission construction plans
- Regional assessment reports
- Interregional planning or operating reports

The primary source of data for the 10-year assessment is the EIA-411 reports submitted to SERC staff and the combined SERC regional and subregion EIA-411 reports. Forecast data reviewed includes summer demand, available summer load management, annual energy, capacity additions (by type), and firm sales and purchases. Historical actual and forecast data from previous reports is maintained by the RRS and is used in the assessment. As EIA-411 requirements evolve, SERC may request reliability data outside of the EIA-411 data requirements in order to perform valid assessments.

The reliability data required for the summer and winter assessments as well as special NERC assessments is detailed in specific requests from NERC. Summer and winter assessments require data similar to the EIA-411, but only for the season being assessed. Additional data and information are required depending on current issues or risks to reliability. The NERC requests will be incorporated into workbooks and requests for information to be submitted to SERC staff.

The forecast demand data submitted by LSEs, PCs, RPs, TPs and Regional Reliability Organizations (RROs) for use in system modeling by SERC regional studies groups and the Eastern Interconnection Reliability Assessment Group (ERAG) Multiregional Modeling Working Group (MMWG) shall be consistent with the forecast demand data reported to SERC, NERC, and government agencies for reliability analysis.

## 6.0 Regional Entity Expectations

### 6.1 SERC Staff

The SERC portal will be used to post specific data requirements and due dates for each data collection effort. SERC staff will maintain and manage areas of the SERC portal containing reliability data requirements. Special requests are carried out in the form of surveys. Additional

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communication from SERC staff is accomplished via announcements posted on the portal, e-mail, phone conferences, and member meetings.

SERC staff is responsible for submitting official versions of the various assessments and reports to NERC as requested.

**6.2 NERC Seasonal Assessments**

The RRS assists SERC staff and the SERC representatives to the NERC RAS by developing seasonal assessments of the SERC reporting areas. From the data provided by the SERC PCs, LSEs, TPs and RPs, written reliability assessments are completed and submitted to NERC as requested.

**6.3 Reliability Review Subcommittee Annual Assessment**

The RRS will annually perform a resource adequacy assessment (both on a regional and subregional basis). The demand and resource capacity data will be reviewed for completeness and assessed in the context of the overall resource capacity needs. The RRS will make an assessment of the ability of the Region and subregions to serve their obligations given the demand growth projections, the amount of non-committed or contracted capacity, etc. The RRS will determine if the resource information submitted represents a reasonable and attainable plan.

The RRS will annually perform a transmission assessment based on regional, interregional (if any), and subregional reliability assessments. The assessments will be reviewed and analyzed. If any additional studies are required, the RRS will request the appropriate regional studies group to perform the study. The assessment will provide a judgment on the ability of the SERC transmission system to operate securely under the expected range of operating conditions over the assessment period as required by the NERC Reliability Standards (Table I of TPL-001-4 (or applicable version of the standard)). In addition, the assessment will consider unusual but possible operating scenarios and how the system is expected to perform. If there are areas within the SERC system or facilities that are especially critical to the reliable operation of the SERC transmission system, these facilities or areas will be reviewed and addressed in the assessment.

Reliability assessment reports that are typically reviewed as part of this effort include:

- Regional reliability assessments
- Peak season power flow studies
- Future year power flow studies
- Stability studies (if any) and summary of member system stability studies

Upon completion of the assessments, the RRS will prepare an annual report for approval by the SERC EC, and presentation to the SERC BEC in accordance with the schedule prescribed in the appendices of the SERC RRS Procedural Manual. Upon approval, the report will be made available to SERC entities and other interested parties.

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## 6.4 NERC RAS LTRA

In addition to the RRS Annual Report, the RRS assists SERC representatives to the NERC RAS in summarizing the RRS report for inclusion in the SERC section of the NERC RAS LTRA.

## 7.0 References

1. US Energy Information Administration -411 Coordinated Bulk Power Supply and Demand Program Report data request
2. [SERC RRS Procedural Manual](#)

## 8.0 Revision History

Revision	Date	Originator	Comments
0	September 3, 1999		Initial approval of I.B Procedure
1	March 11, 2005		Update to reflect new Version 0 NERC Standards; inclusion of specific references to MOD 16-21 standards requirements (formerly II.D)
2	November 3, 2006		Update references such as removal of VSTE, VASTE, VEM, etc.
3	October 15, 2009		Updated committee names and re-certification of document. .
	September 23, 2010		SERC Board Executive Committee approved as SERC Regional Criteria
4	October 6, 2011		Minor editorial changes.
5	October 29, 2014		Changes to reflect NERC request to report information on a RC reporting area basis and not a subregion basis, the combined inter-regional studies under ERAG and changes needed due to FERC not approving the NERC Standards.
6	October 2, 2018	RRS	Reformatted into new document template.

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